BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

MEASUREMENT

Name of work: Improvements to drains of vayunandhan layout main road (RHS) in kempapura in ward No.07 Byatarayanapura .

Est Cost : 25.00 LAKHS

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

gency **Sri. Mahesh**

ame of work:- Improvements to drains of vayunandhan layout main road (RHS) in kempapura in ward o.07 Byatarayanapura

stimated Cost:- 25.00 Lakhs

NO	Description of work	No	L	B	D	QTY		
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications							
	0-30	1	30	0.9	0.6	16.2		
	30-60	1	30	0.9	0.9	24.3		
	60-90	1	30	0.9	1	27		
	90-120	1	30	0.9	1	27		
	120-150	1	30	0.9	1	27		
	150-177	1	27	0.9	1	24.3		
	CULVERTS							
	Muneswamy gowda layot Main road	1	6	2	0.9	10.8		
	1st cross	1	6	2	1.2	14.4		
	2nd cross	1	6	2	1.2	14.4		
	shani temple road							
		1	6	2	1.2	14.4		
		1	6	2	1.2	14.4		
						214.2		

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

2	Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification							
	RCC DRAIN BOTTOM							
	0-30	1	30.00	0.90	0.15	4.05		
	30-60	1	30.00	0.90	0.15	4.05		
	60-90	1	30.00	0.90	0.15	4.05		
	90-120	1	30.00	0.90	0.15	4.05		
	120-150	1	30.00	0.90	0.15	4.05		
	150-177	1	27.00	0.90	0.15	3.65		
	CULVERTS							
	Muneswamy gowda la	1	6.00	2.00	0.15	1.80		
	1st cross	1	6.00	2.00	0.15	1.80		
	2nd cross	1	6.00	2.00	0.15	1.80		
	shani temple road							
		1	6.00	2.00	0.15	1.80		
		1	6.00	2.00	0.15	1.80		
	Below Kerb	1	165.00	0.20	0.15	4.95		
	Ramps for culverts							
		2	6.00	2.00	0.15	3.60		
		2	6.00	2.00	0.15	3.60		
		2	6.00	2.00	0.15	3.60		
		2	6.00	2.00	0.15	3.60		
		2	6.00	2.00	0.15	3.60		
						55.845		
4	Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications							
	CULVERTS							
ıy gowda layot Main road		2	6	0.6	0.6	4.32		
	1st cross	2	6	0.6	0.9	6.48		
	2nd cross	2	6	0.6	0.9	6.48		
	shani temple road		0	0.6	0.9			
		2	6	0.6	0.9	6.48		
		2	6	0.6	0.9	6.48		
	Old culvert wall damage repair	1	5	0.6	0.9	2.7		
						32.94		
				Qty Ltd to		32.4		

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications.							
	Culvert bottom							
	Muneswamy gowda layot Main road	1	6.00	0.60	0.15	0.54		
	1st cross	1	6.00	0.60	0.15	0.54		
	2nd cross	1	6.00	0.60	0.15	0.54		
	shani temple road							
		1	6.00	0.60	0.15	0.54		
		1	6.00	0.60	0.15	0.54		
						2.70		
	culvert coping							
		2	6.00	0.60	0.10	0.72		
		2	6.00	0.60	0.10	0.72		
		2	6.00	0.60	0.10	0.72		
		2	6.00	0.60	0.10	0.72		
		2	6.00	0.60	0.10	0.72		
					cum	**3.6**		
					Total	**6.30**	NDP DE(W2) 25/7	
5	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4							
	CULVERTS							
	Muneswamy gowda layot Main road	2	6		0.6	7.2		
	1st cross	2	6		0.9	10.8		
	2nd cross	2	6		0.9	10.8		
	shani temple road				0.9	0.9		
		2	6		0.9	10.8		
		2	6		0.9	10.8		
	Old culvert wall damage repair	1	5		0.9	4.5		
					Sqm	**55.8**	54.90	
				Qty Ltd to		54	NDP DE(W2) 25/7	

Executive Engineer, Anekal Sub Division, Jigani Zone, B.B.M.P., Bangalore.

Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification

Muneswamy gowda layot Main road	1	10	1.8	0.6	10.8		
1st cross	1	10	1.8	0.6	10.8		
2nd cross	1	10	1.8	0.6	10.8		
shani temple road							
	1	10	1.8	0.6	10.8		
	1	10	1.8	0.6	10.8		
				Sqm	54		

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

NDP JE(Civil) 26/8

7 Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications

			L	no of rods	le of u bar	Total length	
						10mm	8mm
Main rod	0-30	1	30	345	1.4	483	
distribution		1	30	7	30		210
	30-60	1	30	345	1.8	621	
		1	30	7	30		210
	60-90	1	30	345	1.9	655.5	
		1	30	7	30		210
	90-120	1	30	345	2	690	
		1	30	7	30		210
	120-150	1	30	345	2	690	
		1	30	7	30		210
	150-177	1	27	310	2	620	
		1	27	7	27		189
						3759.5	1239
						0.62 kg/cum	0.39kg/cum
						2330.89	483.21
						2814.1	2.81

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

NDP JE(Civil) 16/7

Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge							
0-30	4	30		0.3	36.00		
30-60	4	30		0.45	54.00		
60-90	4	30		0.6	72.00		
90-120	4	30		0.6	72.00		
120-150	4	30		0.6	72.00		
150-177	4	27		0.6	64.80		
				Sqm	**370.80**		
Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications.							
RCC DRAIN BOTTOM							
0-30	1	30	0.9	0.15	4.05		
30-60	1	30	0.9	0.15	4.05		
60-90	1	30	0.9	0.15	4.05		
90-120	1	30	0.9	0.15	4.05		
120-150	1	30	0.9	0.15	4.05		
150-177	1	27	0.9	0.15	3.65		
RCC DRAIN SIDE WALL							
0-30	2	30	0.15	0.3	2.70		
30-60	2	30	0.15	0.45	4.05		
60-90	2	30	0.15	0.6	5.40		
90-120	2	30	0.15	0.6	5.40		
120-150	2	30	0.15	0.6	5.40		
150-177	2	27	0.15	0.6	4.86		
				cum	**51.71**		
			Qty Ltd to		**51.03**		

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

9	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications							
	0-30	48	0.6	0.9		25.92		
	30-60	45	0.6	0.9		24.3		
	60-90	45	0.6	0.9		24.3		
	90-120	40	0.6	0.9		21.6		
	120-150	50	0.6	0.9		27		
	150-177	45	0.6	0.9		24.3		
				Sqm		147.42	NDP AE(W) 26/8	
11	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc							
	0-30	60				60		
	30-60	60				60		
	60-90	60				60		
	90-120	60				60		
	120-150	63				63		
	150-177	57				57		
				Nos		360	NDP AE(W) 26/8	
12	Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications.							
	0-30	60	0.45			27		
	30-60	60	0.45			27		
	60-90	60	0.45			27		
	90-120	60	0.45			27		
	120-150	63	0.45			28.35		
	150-177	57	0.45			25.65		
				Sqm		162	NDP AE(W) 26/8	
13	Providing and fixing MS Grating 260x260 mm							
		32		nos		32.00	NDP AE(W) 26/8	

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter							
				cum		214.20		

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Byatarayanapura Division